

CLAIMS

1. A dispersion comprising
 - (A) hydrotalcite compound particles having
 - 5 (1) an average secondary particle diameter of 0.60 to 3 μm as measured by a laser beam diffraction scattering method,
 - (2) a specific surface area of 0.5 to 10 m^2/g as measured by a BET method, and
 - 10 (3) a platy crystal particle shape, and
 - (B) an organic polar solvent.
2. A dispersion according to Claim 1, wherein the
15 content of the hydrotalcite compound particles is 10 to 30% by weight.
3. A dispersion according to Claim 1, wherein the
hydrotalcite compound particles have an average aspect
ratio (major axis diameter/thickness) of 1.7 to 8.
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4. A dispersion according to Claim 1, wherein the
hydrotalcite compound particles have been surface-
treated with a surface-treating agent.
- 25 5. A dispersion according to Claim 1, wherein the
hydrotalcite compound particles have been produced
without conducting any wet grinding treatment in an
organic polar solvent.
- 30 } 6. A dope for dry or wet production of polyurethane
article, comprising
 - (A) hydrotalcite compound particles having
 - (1) an average secondary particle diameter of 0.60 to 3 μm as measured by a laser beam diffraction scattering

method,

(2) a specific surface area of 0.5 to 10 m²/g as measured by a BET method, and

(3) a platy crystal particle shape,

5 (B) an organic polar solvent, and

(C) a polyurethane.

7. A dope according to Claim 6, wherein the content of the hydrotalcite compound particles is 0.05 to 5% by
10 weight and the content of the polyurethane is 10 to 45% by weight.

8. A dope according to Claim 6, wherein the hydrotalcite compound particles have an average aspect
15 ratio (major axis diameter/thickness) of 1.7 to 8.

9. A dope according to Claim 6, wherein the hydrotalcite compound particles have been surface-treated with a surface-treating agent.
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10. A dope according to Claim 6, wherein the hydrotalcite compound particles have been produced without conducting any wet grinding treatment in an organic polar solvent.

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11. A polyurethane fiber containing (A) hydrotalcite compound particles having

(1) an average secondary particle diameter of 0.60 to 3 μ m as measured by a laser beam diffraction scattering
30 method,

(2) a specific surface area of 0.5 to 10 m²/g as measured by a BET method, and

(3) a platy crystal particle shape.

12. A polyurethane fiber according to Claim 11, wherein the content of the hydrotalcite compound particles is 0.1 to 10% by weight.
- 5 13. A polyurethane fiber according to Claim 11, wherein the hydrotalcite compound particles have an average aspect ratio (major axis diameter/thickness) of 1.7 to 8.
- 10 14. A polyurethane fiber according to Claim 11, wherein the hydrotalcite compound particles have been surface-treated with a surface-treating agent.
- 15 15. A polyurethane fiber according to Claim 11, which has been produced from a dope set forth in Claim 6, by a dry or wet method.
16. A dope for dry or wet production of aromatic polyamide article, comprising
- (A) hydrotalcite compound particles having
- 20 (1) an average secondary particle diameter of 0.60 to 3 μm as measured by a laser beam diffraction scattering method,
- (2) a specific surface area of 0.5 to 10 m^2/g as measured by a BET method, and
- 25 (3) a platy crystal particle shape,
- (B) an organic polar solvent, and
- (C) an aromatic polyamide.
- 30 17. A dope according to Claim 16, wherein the content of the hydrotalcite compound particles is 0.05 to 5% by weight and the content of the aromatic polyamide is 5 to 40% by weight.
18. A dope according to Claim 16, wherein the

hydrotalcite compound particles have an average aspect ratio (major axis diameter/thickness) of 1.7 to 8.

19. A dope according to Claim 16, wherein the
5 hydrotalcite compound particles have been surface-treated with a surface-treating agent.

20. An aromatic polyamide film or fiber containing (A)
hydrotalcite compound particles having
10 (1) an average secondary particle diameter of 0.60 to 3 μm as measured by a laser beam diffraction scattering method,
(2) a specific surface area of 0.5 to 10 m^2/g as measured by a BET method, and
15 (3) a platy crystal particle shape.

21. An aromatic polyamide film or fiber according to Claim 20, wherein the content of the hydrotalcite compound particles is 0.1 to 10% by weight.

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22. An aromatic polyamide film or fiber according to Claim 20, wherein the hydrotalcite compound particles have an average aspect ratio (major axis diameter/thickness) of 1.7 to 8.

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23. An aromatic polyamide film or fiber according to Claim 20, wherein the hydrotalcite compound particles have been surface-treated with a surface-treating agent.

30 24. An aromatic polyamide film or fiber according to Claim 20, which has been produced from a dope set forth in Claim 16, by a dry or wet method.

/ 25. Hydrotalcite compound particles for dispersion in

organic polar solvent, having

- (1) an average secondary particle diameter of 0.60 to 3 μm as measured by a laser beam diffraction scattering method,
- 5 (2) a specific surface area of 0.5 to 10 m^2/g as measured by a BET method, and
- (3) a platy crystal particle shape.

26. Hydrotalcite compound particles according to Claim
10 25, having a platy crystal particle shape having an average aspect ratio (major axis diameter/thickness) of 1.7 to 8.

27. Hydrotalcite compound particles according to Claim
15 25, which have been surface-treated with a surface-treating agent.

28. Hydrotalcite compound particles according to Claim
25, which have been surface-modified with at least one
20 kind selected from the group consisting of silicon compounds, boron compounds and aluminum compounds.

29. Hydrotalcite compound particles according to Claim
3 or 25, wherein the surface-treating agent is at least
25 one kind selected from the group consisting of higher fatty acids, anionic surfactants, phosphoric acid esters and coupling agents.

30. Hydrotalcite compound particles according to Claim
30 25, having an average secondary particle diameter of 0.8 to 2 μm as measured by a laser beam diffraction scattering method.

31. Hydrotalcite compound particles according to Claim

25, wherein the proportion of the particles having secondary particle diameters of 5 μm or more as measured by a laser beam diffraction scattering method is 1% or less.

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32. Hydrotalcite compound particles according to Claim 25, having a platy crystal particle shape having an average aspect ratio (major axis diameter/thickness) of 2 to 6.

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